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(57) Abstract:

**SOLUTION:** A B-mode image frame memory 32 records an ultrasonic image of a subject cyclically moving per frame. Based on the ultrasonic images, an image processing section 36 extracts simultaneous phase frames in which the moving state of the subject is simultaneous in phase from each of frame groups as moving cycle unit. Moreover, the image processing section 36 synthesizes the ultrasonic images in a plurality of simultaneous phase frames thus ex-

tracted. Since the speckle patterns in the simultaneous phase frames are different individually, this synthesization processing can reduce speckle noises. In the extraction of the simultaneous phase frames, a matching is made between the frames to define the frames of the best matching as simultaneous phase frame.

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